

## SEQUENCE LISTING

<110> Reinherz, Ellis L.  
 Freund, Christian  
 Li, Jing  
 Nishizawa, Kazuhisa  
 Wagner, Gerhard

<120> Cloning and Characterization of a CD2  
 Binding Protein (CD2BP2)

<130> 1062.1021-004

<150> US 60/111,007

<151> 1998-12-04

<150> US 60/115,647

<151> 1999-01-13

<150> PCT/US99/26993

<151> 1999-11-15

<160> 25

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1299

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

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atg cca aag agg aaa	gtg acc ttc	caa ggc gtg	gga gat gag	gat		168
Met Pro Lys Arg Lys	Val Thr Phe	Gln Gly Val	Gly Asp Glu	Glu Asp		
1	5	10	15			
gag gat gaa atc att gtc ccc aag aag aag ctg gtg gac cct gtg gct						216
Glu Asp Glu Ile Ile	Val Pro Lys	Lys Lys Leu	Val Asp Pro	Val Ala		
20	25	30				
ggg tca ggg ggt cct ggg agc cgc ttt aaa ggc aaa cac tct ttg gat						264
Gly Ser Gly Gly Pro	Gly Ser Arg Phe	Lys Gly Lys	His Ser Leu	Asp		
35	40	45				
agc gat gag gag gag gat gat gat gat ggg ggg tcc agc aaa tat gac						312
Ser Asp Glu Glu Glu	Asp Asp Asp	Asp Gly Gly	Ser Ser Lys	Tyr Asp		
50	55	60				
atc ttg gcc tca gag gat gta gaa ggt cag gag gca gcc aca ctc ccc						360
Ile Leu Ala Ser Glu	Asp Val Glu	Gly Gln Glu	Ala Ala Thr	Leu Pro		
65	70	75	80			

1062.1021-004



cag acc tgg gtg agt gaa ggc tac ttc ccg gac ggt gtt tat tgc cgg 1080  
 Gln Thr Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg  
 305 310 315 320

aag ctg gac ccc cct ggt ggt cag ttc tac aac tcc aaa cgc att gac 1128  
 Lys Leu Asp Pro Pro Gly Gly Gln Phe Tyr Asn Ser Lys Arg Ile Asp  
 325 330 335

ttt gac ctc tac acc tgagcctgct gggggcccag tttggtgggc ctttctttcc 1183  
 Phe Asp Leu Tyr Thr  
 340

tggactttgt ggaggaggca ccaagtgtct caggcagcga ggaaattgga ggccattttt 1243  
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<210> 2

<211> 341

<212> PRT

<213> Homo sapiens

<400> 2

Met Pro Lys Arg Lys Val Thr Phe Gln Gly Val Gly Asp Glu Glu Asp  
 1 5 10 15  
 Glu Asp Glu Ile Ile Val Pro Lys Lys Lys Leu Val Asp Pro Val Ala  
 20 25 30  
 Gly Ser Gly Gly Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp  
 35 40 45  
 Ser Asp Glu Glu Glu Asp Asp Asp Gly Gly Ser Ser Lys Tyr Asp  
 50 55 60  
 Ile Leu Ala Ser Glu Asp Val Glu Gly Gln Glu Ala Ala Thr Leu Pro  
 65 70 75 80  
 Ser Glu Gly Gly Gly Arg Ile Thr Pro Phe Asn Leu Gln Glu Glu Met  
 85 90 95  
 Glu Glu Gly His Phe Asp Ala Asp Gly Asn Tyr Phe Leu Asn Arg Asp  
 100 105 110  
 Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile Asp Trp Val Lys Ile  
 115 120 125  
 Arg Glu Arg Pro Pro Gly Gln Arg Gln Ala Ser Asp Ser Glu Glu Glu  
 130 135 140  
 Asp Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly  
 145 150 155 160  
 Leu Leu Glu Leu Leu Leu Pro Arg Glu Thr Val Ala Gly Ala Leu Arg  
 165 170 175  
 Arg Leu Gly Ala Arg Gly Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln  
 180 185 190  
 Pro Ser Ser Pro Gln Arg Leu Asp Arg Leu Ser Gly Leu Ala Asp Gln  
 195 200 205  
 Met Val Ala Arg Gly Asn Leu Gly Val Tyr Gln Glu Thr Arg Glu Arg  
 210 215 220  
 Leu Ala Met Arg Leu Lys Gly Leu Gly Cys Gln Thr Leu Gly Pro His  
 225 230 235 240  
 Asn Pro Thr Pro Pro Ser Leu Asp Met Phe Ala Glu Glu Leu Ala  
 245 250 255  
 Glu Glu Glu Leu Glu Thr Pro Thr Pro Thr Gln Arg Gly Glu Ala Glu  
 260 265 270  
 Ser Arg Gly Asp Gly Leu Val Asp Val Met Trp Glu Tyr Lys Trp Glu  
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CCP3105-050101

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<212> PRT

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<222> (9) ... (15)

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<212> PRT  
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 <223> CD2BP2 binding region

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 Pro Pro Pro Gly His Arg  
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<210> 11  
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<400> 11  
 Pro Pro Pro Pro Pro Gly His Arg Ser Gln Ala Pro Ser His Arg Pro  
 1 5 10 15  
 Pro Pro Pro Gly His Arg Val Gln His Gln Pro Gln Lys Arg Pro Pro  
 20 25 30  
 Ala Pro Ser Gly Thr Gln Val His Gln Gln Lys Gly Pro Pro Leu Pro  
 35 40 45  
 Arg Pro Arg Val Gln Pro Lys Pro Pro His Gly Ala Ala Glu Asn Ser  
 50 55 60  
 Leu Ser Pro Ser Ser Asn  
 65 70

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 gactacaagg acgacgatga caag

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<210> 14  
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<220>  
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&lt;400&gt; 14

Asp Tyr Lys Asp Asp Asp Asp Lys  
 1 5

&lt;210&gt; 15

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Gallus gallus

&lt;220&gt;

&lt;223&gt; Flag Epitope

&lt;400&gt; 15

Trp Tyr Tyr Lys Asp Pro Gln Gly Glu Ile Gln Gly Pro Phe Ser Asn  
 1 5 10 15  
 Gln Glu Met Ala Glu Trp Phe Gln Ala Gly Tyr Phe Thr Met Ser  
 20 25 30

&lt;210&gt; 16

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Drosophila melanogaster

&lt;220&gt;

&lt;223&gt; Flag Epitope

&lt;400&gt; 16

Glu Val Thr Trp Glu Phe Lys Trp Ser Gln Asp Glu Thr Asp Ile Gln  
 1 5 10 15  
 Gly Pro Phe Ser Thr Glu Lys Met Leu Lys Trp Ser Gln Glu Asn Thr  
 20 25 30  
 Arg Tyr Phe Lys Asn Gly  
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&lt;210&gt; 17

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Leishmania major

&lt;220&gt;

&lt;223&gt; Flag Epitope

&lt;400&gt; 17

Val Trp Met Met Arg Trp Lys Ala Lys Pro Thr Val Gln His Gly Pro  
 1 5 10 15  
 Phe Thr Asp Asp Ala Ile Gln Gln Trp Gly Arg Asp Gly Tyr Phe Gly  
 20 25 30  
 Lys Lys

&lt;210&gt; 18

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Caenorhabditis elegans

Trp	Leu	Tyr	Lys	Asp	Pro	Gln	Asn	Asn	Val	Gln	Gly	Pro	Phe	Thr	Gly
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Val	Asp	Met	His	Gln	Trp	Tyr	Arg	Ala	Gly	Tyr	Phe	Pro	Leu	Gly	
			20					25					30		



<400> 25

Gln	Trp	Phe	Ser	Arg	Ser	Leu	Ala	Pro	Cys	Pro	Gly	Pro	Phe	Thr	Thr
1				5					10					15	
Gln	Glu	Met	Ala	Glu	Trp	Phe	Gln	Ala	Gly	Tyr	Phe	Ser	Met	Ser	
			20					25					30		

P00666